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WPI ACC NO: 1974-79969V/

Anodic oxidn. of aluminium (alloy) - to give coloured oxide coating

Patent Assignee: SUMITOMO LIGHT METAL IND CO (SUMK)

Inventor: HAYASHI Y; ICHIRYU A; SUZUKI T; TERAI S

Patent Family (5 patents, 3 countries)

Patent	Application						
Number	Kind	Date	Number	Kind	Date	Update	
JP 49056844	A	19740603	JP 1972100215	A	19721005	197446	B
DE 2416027	A	19751016	DE 2416027	A	19740402	197543	
NCE			DE 2416027	A	19740402		
US 3935084	A	19760127	US 1974455947	A	19740328	197606	E
JP 1978028859	B	19780817				197837	E
DE 2416027	B	19781019	DE 2416027	A	19740402	197843	
NCE							

**Alerting Abstract JP A**

The anodic oxidn. of Al (alloy) is carried out by (1) anodizing at voltage E1, (2) electrolyzing in the same electrolyte with a high frequency pulsating current of voltage E2, where E2 < E1, and (3) electrolyzing with a high-frequency pulsating current of voltage > E2, the process being repeated once, or twice.

**Title Terms /Index Terms/Additional Words:** ANODE; OXIDATION; ALUMINIUM; ALLOY; COLOUR; OXIDE; COATING

**Class Codes**

International Classification (Main): C25D-011/14

(Additional/Secondary): C25D-011/22

US Classification, Issued: 205108000, 205106000, 205330000

File Segment: CPI

DWPI Class: M11

Manual Codes (CPI/A-M): M11-E01

**Original Publication Data by Authority**

**Germany**

Publication No. DE 2416027 A (Update 197543 NCE)

Publication Date: 19751016

\*\*Verfahren zum Herstellen eines gefaerbten Oxidfilms auf der Oberflaeche

von Aluminium oder einer Aluminiumlegierung\*\*

Assignee: Sumitomo Light Metal Industries Ltd., Tokio

Inventor: Terai, Shiro, Nagoya

Ichiryu, Akinari, Aichi

Suzuki, Toshio, Kasugai

Hayashi, Yoshikatsu, Nagoya, Aichi, JP  
Agent: Fischer, A.H., Dipl.-Ing.; Fischer, W.-D., Dipl.-Ing.,  
Patentanwaelte, 6700 Ludwigshafen

Language: DE

Application: DE 2416027 A 19740402  
DE 2416027 A 19740402 (Local application)

Original IPC: C25D-11/22

Current IPC: C25D-11/22(A)

Claim:

\* 1. Verfahren zum Herstellen eines gefärbten Oxidfilms auf der Oberflaeche von Aluminium oder einer Aluminiumlegierung durch Anodisierung, dadurch gekennzeichnet, dass man die Oberflaeche mit einer Gleichstromspannung E1 in einem Elektrolyt auf der Basis von Schwefelsaeure anodisiert, um einen im wesentlichen farblosen Oxidfilm gewuenschter Dicke herzustellen, worauf man dann das anodisierte Aluminium oder die anodisierte Aluminiumlegierung einer Wechselstromelektrolyse bei einer Spannung E2, die niedriger ist als die Spannung E1, unterwirft.

Publication No. DE 2416027 B (Update 197843 NCE)

Publication Date: 19781019

Language: DE

Application: DE 2416027 A 19740402

#### **Japan**

Publication No. JP 49056844 A (Update 197446 B)

Publication Date: 19740603

Assignee: SUMITOMO LIGHT METAL IND CO (SUMK)

SUMITOMO LIGHT METAL IND CO (SUMK)

Language: JA

Application: JP 1972100215 A 19721005

Original IPC: C25D-11/22

Current IPC: C25D-11/22

Publication No. JP 1978028859 B (Update 197837 E)

Publication Date: 19780817

Language: JA

#### **United States**

Publication No. US 3935084 A (Update 197606 E)

Publication Date: 19760127

\*\*Anodizing process\*\*

Assignee: Sumitomo Light Metal Industries, Ltd.

Inventor: Terai, Shiro, JA, US

Ichiryu, Akinari

Suzuki, Toshio

Hayashi, Yoshikatsu

Agent: Larson, Taylor and Hinds

Language: EN

Application: US 1974455947 A 19740328 (Local application)

Original IPC: C25D-11/14

Current IPC: C25D-11/14(A)

Original US Class (main): 205108

Original US Class (secondary): 205106 205330

Original Abstract: A colored oxide film on the surface of aluminium or an

alloy thereof can be formed by anodizing at a D.C. voltage in an electrolyte based on sulfuric acid, followed by alternating current electrolysis at an A.C. voltage which is lower than the D.C. voltage.

In order to increase the degree of coloring of the colored oxide film,

after the alternating current electrolysis the A.C. voltage is raised

to a higher level but lower than the D.C. voltage, followed by dropping

the voltage down to a level of the A.C. voltage or thereabout.  
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⑤日本分類

98(3) D 012  
98(3) D 2  
96(7) B 1

## 公開実用新案公報

①実開昭49-56844

厅内整理番号 5630-53  
5630-53  
7184-53

③公開 昭49(1974).5.20

審査請求 未請求

## ④可搬型垂直ダイポールアンテナ

- ②実 願 昭48-52159  
②出 願 昭47(1972)8月14日  
②実 願 昭43-96411の補正却下  
実用新案法第13条において準用する特許法第  
53条第4項に規定する実用新案登録出願  
②考案者 石丸清登  
神戸市兵庫区下沢通5の4東亞特  
殊電機株式会社内  
②出願人 東亞特殊電機株式会社  
神戸市兵庫区下沢通5の4  
④代理人 弁理士 清水哲 外1名

## ⑤実用新案登録請求の範囲

高さの調節が可能な導電性のマイクロホンスタ  
ンドと、伸縮自在なくり出し導体と、該くり出し  
導体の下端に設けられ上記マイクロホンスタンド  
の上部に着脱自在に結合し上記くり出し導体及び  
マイクロホンスタンドにそれぞれ電気的に接続す  
るケーブル接続用コネクタを有するアンテナ給電  
部とよりなる可搬型垂直ダイポールアンテナ。

## 図面の簡単な説明

第1図はこの考案による可搬型垂直ダイポール  
アンテナ装置の1実施例を示す組立図、第2図は  
アンテナ給電部の内部構造を示す断面図である。  
1……くり出し導体、3……マイクロホンスタン  
ド、5……高さ調節リング、6……アンテナ給電  
部、9……ケーブル、10……コネクタ。

